

Snavely, Keith

From: Wayne Watterson <WWatterson@smeinc.com>
Sent: Wednesday, November 18, 2015 8:45 AM
To: Snavely, Keith
Subject: cost estimate for Ulah Battery
Attachments: October 2015 Table 1 431500180R Cost Estimate_Ulah Battery Area 3.xlsx

Keith, I have attached a cost estimate spreadsheet for the excavation and disposal of lead impacted soil at the Ulah Battery site. We have assumed that 2.5 grids (50' x 50') will be excavated, and have estimated tonnage at 150 tons of soil to be removed.

Wayne H. Watterson, P.E.
Senior Engineer



We have moved:

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TABLE 1
ITEMIZATION OF PROJECTED FEES
 Ulah Battery Site
 S&ME Proposal 43-1500180R
 November 17, 2015

HAZARDOUS TRANSPORT AND DISPOSAL

S&ME SERVICES

Soil Excavation Monitoring and Sampling				
Senior Project Manager	Units	Rates	Subtotal	Fee/Task
Staff Professional	8 hrs @	\$ 116.00 /hr	\$ 928.00	
Air sampling pumps, 4 pumps per day	30 hrs @	\$ 85.00 /hr	\$ 2,550.00	
XRF equipment	3 days @	\$ 30.00 /pump	\$ 90.00	
field expendables	3 days @	\$ 600.00 /pump	\$ 1,800.00	\$ 5,635.60
Mileage	3 days @	\$ 30.00 /day	\$ 90.00	
	320 miles @	\$ 0.555 /mile	\$ 177.60	
Soil Load out and Site Restoration				
Senior Project Manager	Units	Rates	Subtotal	Fee/Task
Staff Professional	2 hrs @	\$ 116.00 /hr	\$ 232.00	
field expendables	15 hrs @	\$ 85.00 /hr	\$ 1,275.00	
Mileage	2 days @	\$ 30.00 /day	\$ 60.00	\$ 1,575.88
	16 miles @	\$ 0.555 /mile	\$ 8.88	
Reporting				
Senior Project Manager	Units	Rates	Subtotal	Fee/Task
Project Professional	5 hrs @	\$ 116.00 /hr	\$ 580.00	
CAD	20 hrs @	\$ 100.00 /hr	\$ 2,000.00	
Administrative	8 hrs @	\$ 65.00 /hr	\$ 520.00	\$ 3,345.00
	5 hrs @	\$ 49.00 /day	\$ 245.00	
Laboratory Services (ESC)				
1311 TCLP lead testing for soil disposal (3 day turn assumes 1.5 multiplier)	Units	Rates	Subtotal	Fee/Task
6010 total lead samples for soil disposal (3 day turn assumes 1.5 multiplier)	4 samples @	\$ 75.00 /samp	\$ 300.00	
6020 confirmation total lead soil samples	4 samples @	\$ 20.00 /samp	\$ 80.00	\$ 440.00
	4 samples @	\$ 15.00 /samp	\$ 60.00	
CONTRACTOR FEES				
Excavation and Backfilling (assumes all soil may be disposed at a Subtitle D landfill)				
Mobilization and Demobilization	Units	Rates	Subtotal	Fee/Task
Excavate, Treat, Load, Transport, Dispose of Lead Containing Soil	1 each @	\$ 1,800.00 /trip	\$ 1,800.00	
Import clean soil backfill	150 tons @	\$ 130.00 /hr	\$ 19,500.00	
Seed & Straw, 10,000 SF	150 tons @	\$ 20.00 /ton	\$ 3,000.00	\$ 27,000.00
	10,000 feet2 @	\$ 0.27 each	\$ 2,700.00	
Total Projected Fee :				\$ 37,996.48